

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P317377

Luminaire Tested: **GAN-SA3D-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20638 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



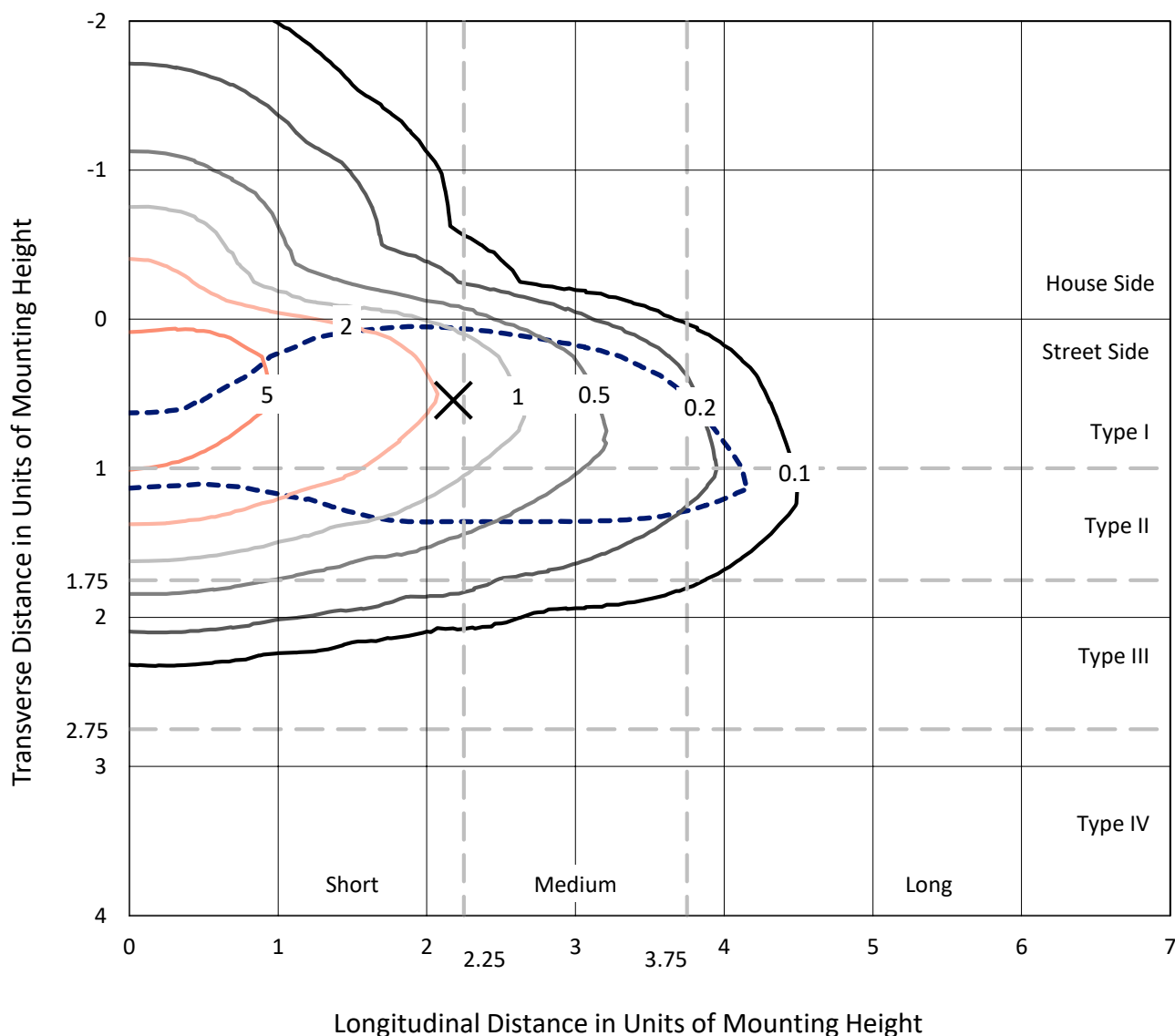
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

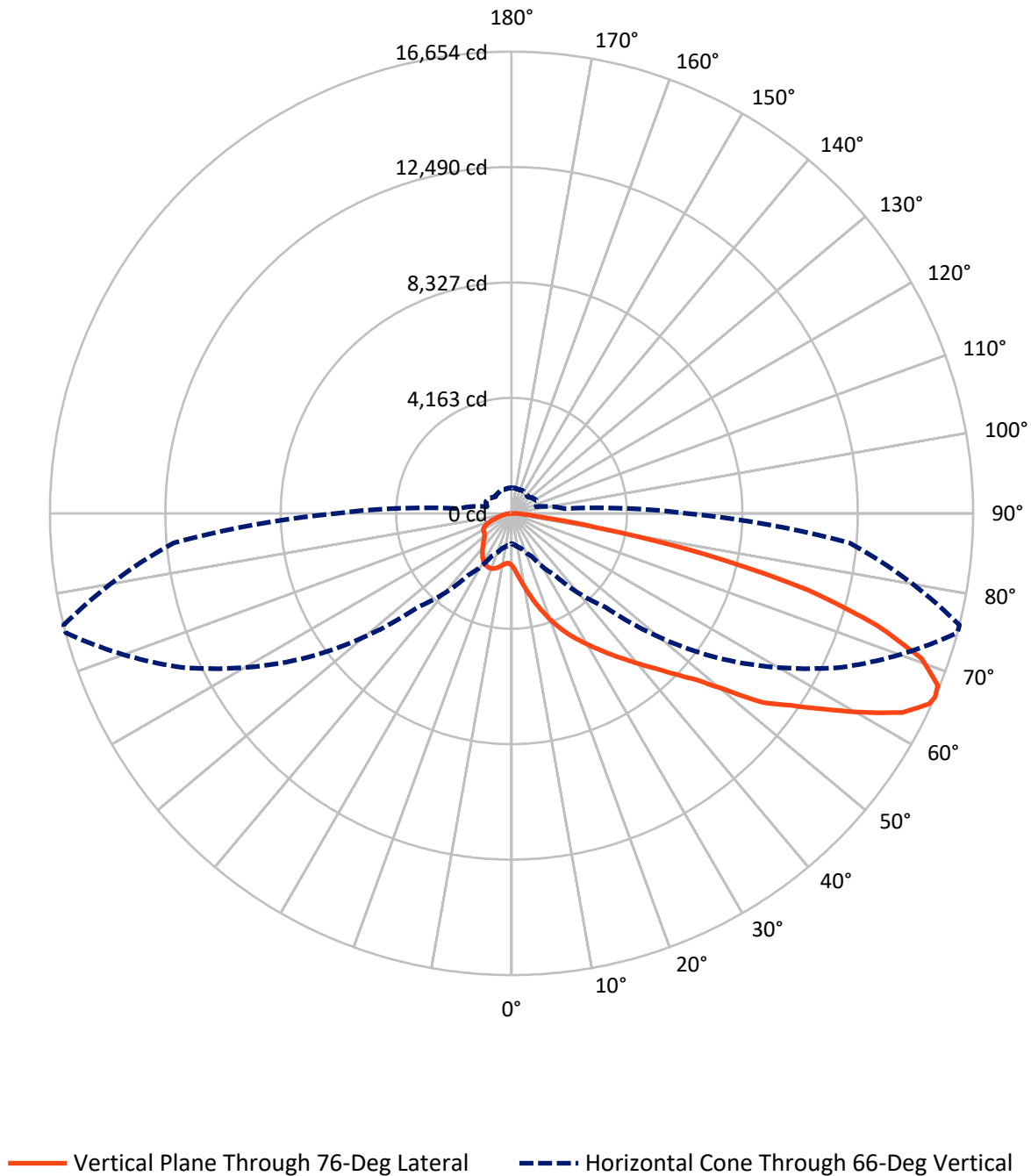


Based on 25 foot mounting height. Maximum calculated value = 8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3472.7	0.0	3472.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	17165.3	0.0	17165.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	20638.0	0.0	20638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	1.1
10°-20°	900.0	4.4
20°-30°	1748.9	8.5
30°-40°	2854.7	13.8
40°-50°	3900.2	18.9
50°-60°	4542.9	22.0
60°-70°	4072.8	19.7
70°-80°	2058.2	10.0
80°-90°	332.4	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20638.0	100.0
0°-180°	20638.0	100.0

Coefficient of Utilization



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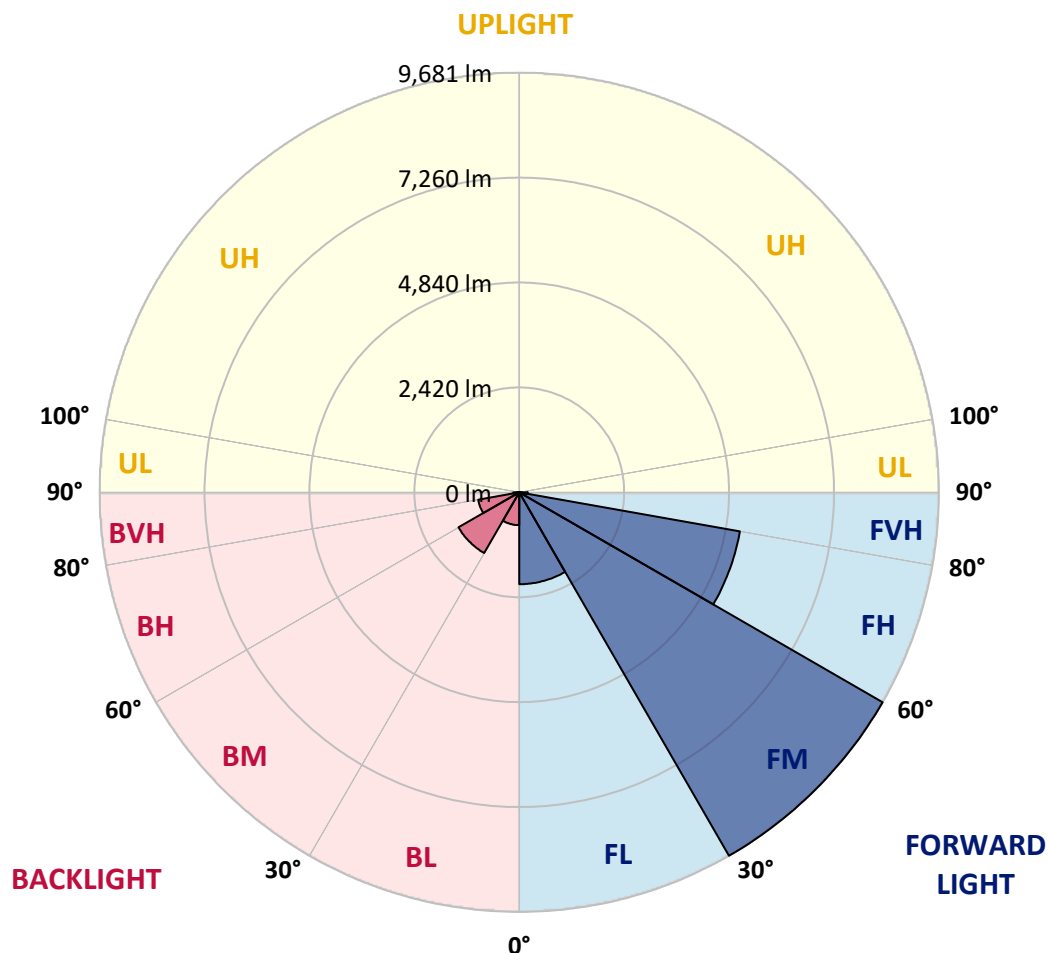
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2119.5	10.3			
FM	(30°-60°)	9680.7	46.9			
FH	(60°-80°)	5168.9	25.0			G3/7500
FVH	(80°-90°)	196.3	1.0			G2/225
BL	(0°-30°)	757.4	3.7	B2/1000		
BM	(30°-60°)	1617.1	7.8	B2/2500		
BH	(60°-80°)	962.1	4.7	B2/1000		G2/1000
BVH	(80°-90°)	136.1	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7
2.5°	2502.0	2464.1	2460.6	2405.3	2392.7	2286.9	2209.1	2127.8	2035.4	2017.1	1944.3
5°	3213.8	3210.3	3162.0	3071.6	3000.8	2820.1	2641.4	2452.2	2244.8	2211.2	2047.3
7.5°	3854.2	3848.6	3811.5	3714.1	3611.8	3389.7	3134.7	2844.6	2508.3	2458.5	2186.7
10°	4340.4	4338.3	4325.7	4254.3	4167.4	3954.4	3672.7	3276.9	2814.5	2746.5	2361.1
12.5°	4716.0	4720.2	4728.6	4703.4	4662.0	4480.6	4191.9	3735.1	3141.0	3073.7	2555.2
15°	4970.3	4982.9	5026.4	5062.1	5083.8	4972.4	4692.9	4203.8	3506.7	3426.1	2770.3
17.5°	5098.5	5112.6	5187.5	5295.4	5394.9	5383.7	5161.6	4650.8	3857.7	3779.9	3001.5
20°	5209.2	5219.7	5303.8	5433.4	5609.3	5687.1	5562.4	5081.0	4242.4	4149.9	3246.8
22.5°	5530.1	5543.4	5568.7	5642.2	5797.8	5940.7	5880.5	5488.1	4594.8	4508.6	3479.4
25°	6149.5	6165.6	6111.0	6048.6	6078.0	6177.5	6188.7	5859.4	4952.1	4854.7	3729.5
27.5°	6895.7	6918.8	6825.6	6665.2	6525.0	6486.5	6473.2	6163.5	5293.3	5180.5	3976.8
30°	7626.4	7666.4	7545.2	7337.1	7079.9	6899.2	6765.4	6461.3	5629.6	5521.7	4210.1
32.5°	8340.4	8324.3	8148.4	7945.2	7644.0	7417.6	7094.0	6780.8	6008.0	5884.0	4442.0
35°	8829.4	8835.0	8671.8	8430.8	8143.5	7969.8	7534.0	7125.5	6394.0	6279.8	4705.5
37.5°	9245.6	9219.7	9034.7	8809.8	8562.5	8488.2	8048.9	7505.2	6812.3	6687.6	4985.7
40°	9384.3	9354.2	9233.0	9071.2	8872.9	8866.6	8617.1	7935.4	7285.2	7161.9	5301.7
42.5°	9300.3	9261.7	9212.0	9167.8	9106.9	9134.9	9151.0	8439.9	7805.1	7667.1	5667.5
45°	8989.9	8931.7	8966.8	9062.7	9195.2	9353.5	9633.1	8998.3	8387.3	8271.7	6096.9
47.5°	8512.7	8460.2	8569.5	8774.8	9134.9	9535.7	10089.2	9614.8	9082.4	8967.5	6708.6
50°	7841.5	7856.9	8013.2	8386.6	8931.0	9619.8	10651.1	10431.1	10092.7	9985.5	7543.1
52.5°	6740.1	6742.9	7182.9	7796.0	8569.5	9576.3	10962.9	11474.3	11472.2	11342.6	8337.6
55°	5717.2	5779.6	6127.8	6942.6	7983.8	9402.6	11180.8	11981.6	12378.2	12226.1	9078.2
57.5°	4718.1	4754.5	5084.5	5902.9	7147.9	8939.4	11404.3	12590.5	13422.1	13326.1	9998.8
60°	3581.7	3637.7	3978.9	4734.9	6078.7	8117.6	11425.3	13225.9	14669.9	14573.3	11026.6
62.5°	2324.7	2421.4	2740.9	3449.2	4785.4	6935.6	10937.7	13641.4	15852.6	15818.3	11938.9
65°	1336.1	1409.0	1631.1	2177.6	3301.4	5451.7	9778.1	13481.7	16580.6	16561.0	12280.1
66°	1091.6	1137.1	1307.4	1701.8	2724.1	4787.5	9104.1	13144.7	16652.8	16653.5	12240.8
67.5°	873.0	893.3	969.7	1218.4	2010.1	3794.7	7899.7	12401.3	16563.1	16587.6	11987.9
70°	722.4	732.9	756.7	816.9	1097.2	2288.3	5607.2	10469.6	15662.8	15681.7	11000.7
72.5°	648.1	654.4	663.5	671.9	774.2	1278.7	3424.7	8375.4	13732.5	13757.0	9496.4
75°	587.1	590.6	589.2	589.9	649.5	814.8	1769.8	6253.2	11103.7	11054.7	7274.7
77.5°	515.7	519.2	512.2	513.6	574.5	626.4	880.7	4377.6	7493.3	7147.2	4098.7
80°	435.8	438.6	435.8	440.7	500.3	472.9	512.2	2462.7	3313.3	3134.0	1457.3
82.5°	329.3	341.2	349.6	369.2	412.0	336.3	342.6	959.2	1008.9	960.6	447.0
85°	144.3	175.9	263.4	282.4	309.7	201.8	224.9	391.0	410.6	398.0	162.5
87.5°	37.8	41.3	130.3	163.9	171.7	91.1	117.0	178.0	187.8	178.0	53.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7
2.5°	1905.7	1871.4	1809.7	1755.1	1713.8	1685.7	1657.7	1643.7	1635.3	1626.9	1628.3
5°	1966.7	1897.3	1791.5	1716.6	1674.5	1647.9	1633.9	1628.3	1624.8	1616.4	1616.4
7.5°	2058.5	1960.4	1814.7	1737.6	1704.7	1684.3	1675.9	1673.1	1668.9	1659.1	1660.5
10°	2174.1	2036.8	1863.0	1788.0	1757.9	1735.5	1723.6	1719.4	1711.7	1700.4	1701.8
12.5°	2310.0	2131.3	1926.8	1848.3	1811.8	1781.7	1762.1	1750.2	1736.9	1722.2	1722.9
15°	2458.5	2234.3	1995.4	1902.2	1852.5	1810.4	1778.9	1758.6	1737.6	1719.4	1718.7
17.5°	2609.2	2333.8	2048.0	1931.7	1864.4	1809.0	1766.3	1734.8	1708.9	1686.4	1684.3
20°	2771.7	2423.5	2077.4	1928.9	1842.0	1776.1	1719.4	1680.1	1651.4	1629.0	1625.5
22.5°	2937.1	2507.6	2082.3	1900.1	1792.2	1711.7	1652.1	1608.7	1579.2	1556.1	1547.7
25°	3088.4	2572.7	2062.0	1844.8	1722.9	1636.0	1577.8	1533.7	1509.9	1482.5	1474.1
27.5°	3226.4	2618.3	2021.3	1774.0	1645.1	1559.6	1505.0	1467.1	1441.2	1420.2	1413.2
30°	3350.4	2642.8	1954.8	1689.9	1565.2	1487.5	1441.2	1415.3	1392.9	1366.2	1361.3
32.5°	3468.2	2642.8	1869.3	1598.2	1486.1	1423.7	1396.4	1380.3	1355.0	1329.1	1322.1
35°	3585.9	2626.7	1768.4	1502.2	1413.2	1378.2	1376.8	1357.8	1319.3	1284.3	1275.2
37.5°	3709.9	2593.8	1654.9	1412.5	1353.6	1357.8	1369.7	1327.7	1273.1	1223.3	1210.0
40°	3850.0	2548.2	1537.2	1334.7	1303.9	1348.7	1350.8	1284.3	1177.8	1132.2	1120.3
42.5°	4014.7	2502.7	1427.9	1266.1	1264.7	1321.4	1315.1	1190.4	1126.6	1103.5	1097.2
45°	4231.1	2476.8	1324.2	1200.9	1233.8	1277.3	1254.1	1138.5	1111.9	1098.6	1093.0
47.5°	4572.4	2490.1	1228.9	1149.0	1203.0	1233.1	1140.6	1117.5	1098.6	1082.5	1076.9
50°	4999.7	2482.4	1151.8	1113.3	1168.0	1186.9	1089.5	1090.2	1080.4	1062.2	1053.8
52.5°	5321.3	2422.1	1102.1	1093.0	1137.1	1104.9	1057.3	1063.6	1058.7	1032.0	1022.9
55°	5631.7	2370.3	1076.9	1085.3	1114.7	1002.6	1019.4	1034.8	1029.9	1004.0	999.8
57.5°	6017.8	2360.4	1061.5	1087.4	1095.8	951.5	983.0	1003.3	999.8	988.6	986.5
60°	6490.7	2363.3	1047.5	1090.9	1074.8	913.6	948.7	974.6	976.7	974.6	973.2
62.5°	6750.6	2286.9	1012.4	1081.1	1037.6	880.7	912.9	950.8	951.5	955.7	955.0
65°	6529.9	2058.5	947.3	1046.8	975.3	853.4	882.1	923.4	912.9	931.8	931.8
66°	6315.5	1926.8	915.0	1024.3	948.7	842.9	872.3	909.4	896.1	922.0	922.0
67.5°	5877.6	1704.7	856.9	976.7	910.8	828.2	861.1	886.3	868.1	906.6	903.8
70°	5077.5	1318.6	739.9	868.8	848.5	806.4	845.7	840.1	813.4	872.3	861.1
72.5°	4280.9	1001.9	594.1	727.3	753.9	779.1	823.9	781.2	747.6	788.9	764.4
75°	3321.7	753.2	469.4	565.4	636.9	736.4	798.0	713.2	664.9	660.7	647.4
77.5°	1795.7	517.1	372.0	431.6	505.9	683.1	780.5	640.4	567.5	550.7	540.2
80°	711.1	336.3	270.4	327.2	353.8	606.1	738.5	555.6	468.0	451.2	435.1
82.5°	293.6	199.0	174.5	219.3	230.5	518.5	662.8	455.4	361.5	500.3	531.1
85°	126.1	109.3	103.7	113.5	130.3	363.6	527.6	347.5	390.3	348.2	276.8
87.5°	37.8	46.2	44.1	43.4	47.6	86.9	281.0	193.4	286.6	108.6	81.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)